We claim:

- 1. A method of treating a stenosis or restenosis in a coronary blood vessel comprising the steps of:
 - implanting a stent within the coronary blood vessel; and
- injecting a therapeutic agent comprising an anti-restenosis agent into the myocardium proximate the coronary blood vessel.
- 2. The method of claim 1 further comprising the steps of: injecting the therapeutic agent into the myocardium from an endocardial space of the heart.
 - 3. The method of claim 1 further comprising the steps of: injecting the therapeutic agent peri-adventitially through the blood vessel wall.
- 4. The method of claim 1 further comprising the step of:
 15 injecting the therapeutic agent peri-adventitially through a coronary vein or coronary sinus.
 - 5. The method of claim 1, 2, 3 or 4 further comprising the steps of:
- injecting the therapeutic agent at a site distal to the stent.
 - 6. The method of claim 1, 2, 3 or 4 further comprising the steps of:
- selecting the anti-restenosis agent from the group comprising anti-oxidant drugs, anti-inflammatory drugs, antineoplastic agents, anti-angiogenic agents and gene therapy agents.

- 7. The method of claim 1, 2, 3 or 4 further comprising the step of:
 - providing the therapeutic agent in a time release formulation.
- 5 8. The method of claim 1, 2, 3 or 4 further comprising the step of:
 - providing the therapeutic agent in a microsphere formulation.
 - 9. The method of claim 1, 2, 3 or 4 further comprising the step of:
- providing the therapeutic agent in a formulation in which the therapeutic agent is encapsulated in micelles.
 - 10. The method of claim 1, 2, 3 or 4 further comprising the step of:
- providing the therapeutic agent in a formulation in which the therapeutic agent is encapsulated in liposomes.
 - 11. A method of treating a stenosis or restenosis in a coronary blood vessel comprising the steps of:
 - performing an angioplasty procedure within the coronary blood vessel; and
- injecting a therapeutic agent comprising an anti-restenosis agent into the myocardium proximate the coronary blood vessel.
 - 12. The method of claim 11 further comprising the steps of:
- injecting the therapeutic agent into the myocardium from an endocardial space of the heart.
 - 13. The method of claim 11 further comprising the steps of:

15

- injecting the therapeutic agent peri-adventitially through the blood vessel wall.
- 14. The method of claim 11 further comprising the step of:
- injecting the therapeutic agent peri-adventitially through a coronary vein or coronary sinus.
 - 15. The method of claim 11, 12, 13 or 14 further comprising the steps of:
 - injecting the therapeutic agent at a site distal to the site of angioplasty.
- 10 16. The method of claim 11, 12, 13 or 14 further comprising the steps of:
 - selecting the anti-restenosis agent from the group comprising anti-oxidant drugs, anti-inflammatory drugs, antineoplastic agents, anti-angiogenic agents and gene therapy agents.
 - 17. The method of claim 11, 12, 13 or 14 further comprising the step of:
 - providing the therapeutic agent in a time release formulation.
- 20 18. The method of claim 11, 12, 13 or 14 further comprising the step of:
 - providing the therapeutic agent in a microsphere formulation.
 - 19. The method of claim 11, 12, 13 or 14 further comprising the step of:
- providing the therapeutic agent in a formulation in which the therapeutic agent is encapsulated in micelles.

15

- 20. The method of claim 11, 12, 13 or 14 further comprising the step of:
 - providing the therapeutic agent in a formulation in which the therapeutic agent is encapsulated in liposomes.
- 5 21. A method of treating a segment of a coronary blood vessel comprising the steps of:
 - injecting a therapeutic agent comprising an anti-restenosis agent into the myocardium proximate the coronary blood vessel.
- 10 22. The method of claim 21 further comprising the steps of:
 injecting the therapeutic agent into the myocardium from an endocardial space of the heart.
 - 23. The method of claim 21 further comprising the steps of:
 injecting the therapeutic agent peri-adventitially through
 the blood vessel wall.
 - 24. The method of claim 21 further comprising the step of: injecting the therapeutic agent peri-adventitially through a coronary vein or coronary sinus.
- 25. The method of claim 21, 22, 23 or 24 further comprising the 20 steps of:
 - injecting the therapeutic agent at a site distal to the segment to be treated.
 - 26. The method of claim 21, 22, 23 or 24 further comprising the steps of:
- selecting the anti-restenosis agent from the group comprising anti-oxidant drugs, anti-inflammatory drugs, anti-

neoplastic agents, anti-angiogenic agents and gene therapy agents.

- 27. The method of claim 21, 22, 23 or 24 further comprising the step of:
- 5 providing the therapeutic agent in a time release formulation.
 - 28. The method of claim 21, 22, 23 or 24 further comprising the step of:

providing the therapeutic agent in a microsphere formulation.

10 29. The method of claim 21, 22, 23 or 24 further comprising the step of:

providing the therapeutic agent in a formulation in which the therapeutic agent is encapsulated in micelles.

30. The method of claim 21, 22, 23 or 24 further comprising the step of:

providing the therapeutic agent in a formulation in which the therapeutic agent is encapsulated in liposomes.

- 31. A method of treating intraluminal disease of a coronary blood vessel comprising the steps of:
- injecting a therapeutic agent into the myocardium proximate the coronary blood vessel.
 - 32. The method of claim 31 further comprising the steps of:
 injecting the therapeutic agent into the myocardium from an endocardial space of the heart.
- 25 33. The method of claim 31 further comprising the steps of:
 injecting the therapeutic agent peri-adventitially through
 the blood vessel wall.

212/511

- 34. The method of claim 31 further comprising the step of:
 - injecting the therapeutic agent peri-adventitially through a coronary vein or coronary sinus.
- 35. The method of claim 31, 32, 33 or 34 further comprising the 5 steps of:
 - injecting the therapeutic agent at a site distal to the segment to be treated.
 - 36. The method of claim 31, 32, 33 or 34 further comprising the steps of:
- selecting the therapeutic agent from the group comprising anti-oxidant drugs, anti-inflammatory drugs, anti-neoplastic agents, anti-angiogenic agents and gene therapy agents.
- 37. The method of claim 31, 32, 33 or 34 further comprising the step of:
 - providing the therapeutic agent in a time release formulation.
 - 38. The method of claim 31, 32, 33 or 34 further comprising the step of:
- 20 providing the therapeutic agent in a microsphere formulation.
 - 39. The method of claim 31, 32, 33 or 34 further comprising the step of:
 - providing the therapeutic agent in a formulation in which the therapeutic agent is encapsulated in micelles.
- 25 40. The method of claim 31, 32, 33 or 34 further comprising the step of:

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providing the therapeutic agent in a formulation in which the therapeutic agent is encapsulated in liposomes.

- 41. A kit for delivering a therapeutic agent to a patient suffering from vascular disease characterized by a diseased treatment region in a blood vessel, said kit comprising:
 - a catheter having means for introducing a therapeutic agent into in a perivascular space surrounding the blood vessel; and
- a dose of therapeutic agent suitable for introduction into

 the perivascular space surrounding the blood vessel through
 the catheter;
 - instructions for use of the catheter according to the following method:
 - positioning the means for introducing into the perivascular space; and

delivering an dose of the therapeutic agent into the perivascular space near the diseased treatment region.